Packed with clear, concise explanations, tutorials and illustrations, **samsungusa.com/dtvguide** is an indispensable tool for both DTV buyers and electronics professionals.

Unclear about HDTV?
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SAMSUNG

HIGH DEFINITION TELEVISION HDTV MONITOR

HIGH DEFINITION TELEVISION HDTV TUNER

HIGH DEFINITION TELEVISION HDTV

For more information, log on to www.samsungusa.com

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TV-BRO-5000

DynaFlat™ HD 2004 Collection
Flat-Screen Digital HD TVs and Monitors

SAMSUNG

Stepping up to HDTV is more affordable than you may think. Most Samsung DynaFlat HD sets have built-in HD tuners so you can begin watching free, over-the-air HDTV programs today.* There's also a line of affordable DynaFlat HD Monitors that can display HD signals from high-definition sources, such as equipped satellite and digital cable providers. Plus, DynaFlat HD makes regular TV look better by delivering a crystal-clear, progressive scan picture from any analog source. The result is smoother action and rock-solid pictures without the flickering you see on typical interlaced TVs. HDTV and progressive scan DVD players are just a connection away, letting you take advantage of the best picture quality available today.

There is a Samsung DynaFlat HD digital TV in the appropriate screen size to fit your room, that special cabinet, or wherever a better television can be enjoyed. Go wide screen with a 26" or 30" or get the best possible picture in a 27" or 32" set. Samsung's DynaFlat HD line has four distinctly different series of models. The top-of-the-line **Wiselink** model has Multi Memory slots so you can put your digital camera's memory card right into the TV for a great slide show. **Neo** models have a superior picture and the most advanced features with an uncomplicated look. The **Premiere** series offers an outstanding value, a great picture from any source and Light-Touch back-lit front panel control key icons. The **DynaFlat HD Monitor** series is also an outstanding value with great picture and sound that can be upgraded to HDTV whenever you are ready. Get the most from your TV and DVDs and see the future of HDTV today with DynaFlat HD.

* Requires antenna. Programming availability and signal strength vary by location.

TXP3275H shown

Built-in vs. Monitor – Which kind of DynaFlat HD is right for you?

What's the difference between a built-in HDTV and an HD monitor?
Samsung's DynaFlat HD lineup offers you the choice of televisions with built-in HDTV tuners and HD monitors. Built-in models have an integrated HD tuner that works with an antenna to receive free, over-the-air HDTV broadcasts. HD monitors can display HDTV sources from external tuners/decoders, such as HD digital cable, satellite or over-the-air (terrestrial) set-top boxes.

The built-in HDTV models have some more advanced features, including Dual HD (720P/1080i) signal compatibility, superior graphics and menu navigation. HD Monitor models give you the flexibility to add an optional HDTV tuner/decoder in the future. Samsung lets you choose which type of HD set is right for you!

HD Built-in
Tunes High Definition TV

Samsung Integrated HDTV Sets vs. HD Monitors

Feature	Samsung Built-in HDTV	Typical HD Monitor*
Meets 2005 FCC guidelines for an integrated digital tuner	Yes	No
Built-in HDTV tuner	Yes	No
Digital signal strength meter	Built-in, on-screen	No
Digital program guide (compatible)	Yes	No
Native resolution	1080i	1080i
On-screen display & menu navigation	Advanced	Basic
Digital connections		
Component	(480i/480P/720P/1080i)	(480i/480P/1080i)
DVI-HDTV	720P/1080i	1080i

* Features vary from model to model.

DynaFlat built-in HDTV models are Dual HD (720P/1080i)
Most HD monitors only support 1080i HD inputs (1,080 horizontal lines of interlaced picture). Generally, 720P (720 horizontal lines of progressive scan picture) signals are converted to 1080i to meet the display requirements of the HD monitor by the set-top box. Some components, however, may only output 720P for HD. DynaFlat built-in HDTVs are Dual HD, so they support both 720P and 1080i signals displaying the picture in the native 1080i format. All DynaFlat HDTVs have auto-sensing, auto-switching inputs, so you never have to worry about what type of HD signal is coming into your set.

DUAL HD 720P/1080i

Meets the 2005 FCC Guidelines for an Integrated Digital Tuner – today
The FCC has mandated that in the future all televisions will have to have a built-in, over-the-air tuner (an antenna is required to tune over-the-air signals). Samsung knows the importance of having choices and has adopted the digital/HD tuner now.

FEDERAL COMMUNICATIONS COMMISSION USA

Getting free, over-the-air HDTV broadcasts
Samsung's built-in HDTV models tune and decode free, over-the-air HDTV signals and display HD content from equipped cable and satellite systems. Sometimes there are programming choices available over the air that may not be available from cable or satellite. Free, over-the-air digital and HD programming is compelling; try it and see for yourself. See page 8 for more information.

Wiselink™

Imagine being able to have a digital photo slide show in your living room. DynaFlat Wiselink makes it possible. This High Definition TV has built-in Multi Memory slots for your digital camera memory card. Just gather your family and friends, pop in the memory card and let the fun begin. Wiselink's five-way compatibility accepts Compact Flash, Smart Media, Multi-Media, Memory Stick and SD Memory Cards. Simple, on-screen navigation guides you through the set up process. You can even play back MP3 files that you've saved on your memory cards.

WISELINK

Supports the five most common types of memory cards.

30" wide screen, built-in HDTV with Wiselink Multi Memory slots

The 30" DynaFlat HDTV with Wiselink Multi Memory slots combines the great performance of a HDTV with the convenience of a digital picture viewer. This 16:9 wide screen set has a built-in HD tuner for free, over-the-air HD broadcasts, is Dual HD (720P/1080i) compatible, with progressive scan DVD inputs and all of the great features of a DynaFlat HD set. Plus it doubles as the perfect way to share and display your digital photos.

- Built-in HDTV Tuner (ATSC/NTSC)
- Dual HD – supports both 720P and 1080i HD signals
- Offers true compatibility with progressive scan DVD players
- Samsung DNIe Video Enhancer
- 3:2 Pull Down video frame rate correction.

Just plug in your camera's memory card for a slide show.

DynaFlat HD Wiselink model

TXP3076WH

Meets the 2005 FCC guides for an integrated digital tuner
Tunes free over-the-air HD signals and displays High Definition content from an equipped Digital Cable or Satellite System.

DNIe technology

DNIe™ Digital Natural Image engine

Samsung's unique Digital Natural Image engine (DNIe)* combines a Motion Optimizer, a Contrast Enhancer, a Detail Enhancer, and a Color Optimizer to deliver the most vivid, lifelike picture. You can see the superior DNIe difference from any analog video source – HD signals look better too.

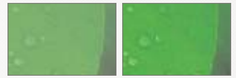
Motion Optimizer 3-D motion analysis reproduces still and fast-moving images naturally, without blurring or noise.

Conventional DNIe

Contrast Enhancer Brightness and contrast are significantly enhanced for deeper, richer blacks and more natural whites.

Conventional DNIe

Detail Enhancer DNIe analyzes frequency shifts for sharper detail, clear image separation and natural edge transition.



Conventional DNIe

Color Optimizer Colors are reproduced with lifelike realism, whites are more accurate and skin tones are given a more natural hue.

Conventional DNIe

Without DNIe With DNIe

*Available on TXN3076WH only.

Digital Visual Interface (DVI)

Samsung's Digital Visual Interface gives you a true digital-to-digital link between your digital source and TV. DVI-HDTV** is an industry standard connector that can be found on newer HDTV receiver/decoders and other digital components. With built-in copy guard protection (HDCP) as mandated by many content providers, Samsung is capable of producing an outstanding picture directly from digital sources.

DVI creates a pure digital interface for HDTV.

**DVI-HDTV is also compatible with HDMI video signals via an optional adapter.

Side-speaker design for 20 watts of full dynamic sound.

Neo Side-Sound built-in HDTVs

Life is confusing enough. Your TV shouldn't be. That's why Samsung took the buttons off the front of the Neo Side-Sound for a clean, uncomplicated look. Clearly the picture is Samsung's best feature. An integrated HD tuner and DVI input for true digital-to-digital connections can deliver HDTV today. Dynamic stereo side speakers complement the experience.

DynaFlat Neo Side-Sound models include:

- Built-in HDTV Tuner (ATSC/NTSC)
- Dual HD – supports both 720P and 1080i HD signals
- Offers true compatibility with progressive scan DVD players
- ProPicture Analog-to-Digital video signal processing
- Digital Channel Signal Strength Meter
- 3:2 Pull Down film frame rate correction
- Connections include: DVI-HDTV with HDCP Digital Input, 2 HD/DVD Component Video Inputs (auto sensing), 2 RF, side & rear S-Video, 4 A/V (1 side & 3 rear), & A/V Outputs
- 20-watt Stereo with adjustable equalizer
- Multi-Function Universal Remote.

DynaFlat Neo Side-Sound models

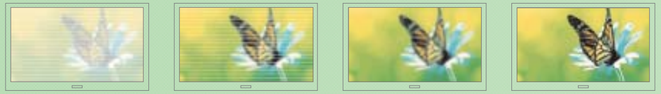
TXP3275H | TXP3075WH | TXP2775H | TXP2675WH

Neo Side-Sound models are available in 32" and 27" standard screen and 30" and 26" wide screen.

Meets the 2005 FCC guides for an integrated digital tuner
Tunes free over-the-air HD signals and displays High Definition content from an equipped Digital Cable or Satellite System.

Samsung ProPicture

Everything looks better on a DynaFlat HD set, thanks to Samsung's unique ProPicture video enhancement system, available on all DynaFlat HD models. ProPicture includes three technologies: Total DSP™, ProChip Plus™ and a Defining Filter. The resulting images are rock solid, with no flicker and clearly legible text.



Unclear analog signal
- Too strong
- Too weak.

Total DSP
- Converts analog to digital
- Restores picture strength to 100% of original
- Optimizes brightness
- Enhances picture quality.

ProChip Plus
- Doubles lines of resolution
- Converts interlaced images to smooth progressive scan
- Reduces flicker
- Smooths motion.

Defining Filter
- 8-bit 20 MHz 3D Y/C Comb Filter
- Sharpens edges
- Removes misty, unclear details
- Eliminates analog artifacts and noise.

Premiere built-in HDTVs

The DynaFlat HD Premiere series is the perfect set for people who want a High Definition TV that is fun and easy to use. Select Premiere models offer the exclusive Light-Touch™ navigation system* that gives you an ultra-cool connection with your set. Buttons have been replaced with innovative Light-Touch control keys. Simply place your finger over the icon and the function is illuminated. It's perfect for dark rooms and brings a cool, contemporary look to your home theater.

DynaFlat Premiere models include:

- Built-in HDTV Tuner (ATSC/NTSC)
- Dual HD – supports both 720P and 1080i HD signals
- Light-Touch Back-Lit Front Panel Control Keys*
- Offers true compatibility with progressive scan DVD players
- ProPicture Analog-to-Digital video signal processing
- Digital Channel Signal Strength Meter
- 3:2 Pull Down film frame rate correction
- Connections include: DVI-HDTV with HDCP Digital Input, 2 HD/DVD Component Video Inputs (auto sensing), 2 RF, side & rear S-Video, 4 A/V (1 side & 3 rear), & A/V Outputs
- 20-watt Stereo with adjustable equalizer
- Multi-Function Universal Remote.

Light-Touch back-lit front panel control keys.

DynaFlat HD Premiere models

TXP3271H | TXP3071WH | TXP2771H | TXP2670WH

Premiere models are available in 32" and 27" standard screen and 30" and 26" wide screen.

* Not available on 26" model.

Meets the 2005 FCC guides for an integrated digital tuner
Tunes free over-the-air HD signals and displays High Definition content from an equipped Digital Cable or Satellite System.

DynaFlat HD Monitors

Great performance with HD compatibility

If you're looking for the great performance of an HDTV set, but you want the flexibility of adding your own, optional HD source, DynaFlat HD Monitors are the smart choice. They make everything from DVDs to digital cable and satellite look better, thanks to their finer-dot pitch DynaFlat picture tubes, ProPicture signal processing, and progressive scan inputs.

When you're ready for HDTV, all you have to do is connect your HD source, whether it's a terrestrial receiver, HD satellite or HD digital cable box. These monitors support a 1080i HDTV image and have a DVI input for true digital-to-digital connectivity. You get crystal-clear 1080i picture and premium performance at a great price.

DynaFlat HD Monitors include:

- Native resolutions 1080i (HD) and 480P (progressive scan)
- Offers true compatibility with progressive scan DVD players
- ProPicture Analog-to-Digital video signal processing improves picture quality (3-line Digital Comb Filter)
- 3:2 Pull Down film frame rate correction
- Connections include: DVI-HDTV with HDCP Digital Input, 2 HD/DVD Component Video Inputs (auto sensing), 1 RF, side & rear S-Video, 4 A/V (1 side & 3 rear), & A/V Outputs
- 20-watt Stereo with adjustable equalizer
- Multi-Function Universal Remote.

HD Monitor models are available in 32" and 27" standard screen and 30" and 26" wide screen.

The affordable step up to HDTV

Once you have a DynaFlat HD Monitor, the next step is getting an HDTV signal.* Many digital cable and digital satellite services offer HDTV programming packages. You can also get free, over-the-air HD programming with an HD tuner/decoder and the proper antenna. DynaFlat HD monitors are capable of displaying a 1080i image. A DVI input provides a pure digital-to-digital connection to your HD source for the best quality picture. The DynaFlat HD Monitor is ready for HDTV when you are.

* Requires a set-top box tuner/decoder.

Free over-the-air HDTV

HD digital cable services

HD satellite services

DynaFlat features – all models

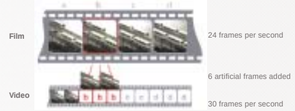
For more information on HDTV and to see interactive, animated demonstrations, log on to samsungusa.com/dtvguide.

Progressive scan DVD player compatibility
All Samsung Digital TVs are designed for easy compatibility with the newer, progressive scan DVD players. A higher-quality DVD input receives 480P progressive scan signals, the native format of DVDs. The difference is clear, smooth and noticeable.

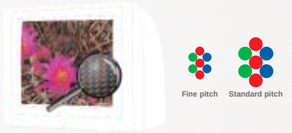
480P inputs for the best DVD connection.

3:2 Pull Down
Indispensable for people who want to watch Hollywood films at home on DVD. The difference between film and video frame speeds causes blurring, stuttering and other motion artifacts, especially during fast-action sequences. With Samsung's 3:2 Pull Down process, these anomalies are corrected and you experience a smooth picture, much closer to the original film.

Turning film into video creates unnatural frames.
3:2 Pull Down removes these frames for a smoother image.



High Resolution DynaFlat HD finer pitch flat picture tube
DynaFlat HD gives you a finer, more detailed picture, thanks to our high-resolution picture tube. The pixels are arranged closer together to improve overall resolution. Our Multiple Focus Electron Gun creates a more detailed image by illuminating more pixels with greater accuracy.



Wide screen Aspect Ratio Control
DynaFlat TVs are equipped with five Aspect Ratio Control settings. You can smoothly and proportionately stretch 4:3 programming to fill a wide screen set, watch in ultra-wide panorama or choose from two levels of Zoom. 4:3 models also offer a screen-fitting option to fill the whole screen.

Five screen filling modes let you choose how to watch.

Plug & Play setup
Plug & Play takes the guesswork out of connecting components. DynaFlat automatically senses new connections from DVD and DTV components, and S-video. Plug & Play setup is an easy automatic guide to select the source (broadcast or cable) and map active channels.

Digital channel signal strength meter*
Check your HD reception with this simple, on-screen display.

*Built-in models only.

Adjustable color temperature controls
The ideal color temperature varies from viewer to viewer and program to program. That's why DynaFlat lets you adjust the color temperature to better suit your favorite types of programming. For example, some viewers prefer Normal for TV programs, Warm for movies and soap operas, and Cool for sporting events.

Digital channel electronic program guide*
The digital channel program guide provides program description, a schedule of show times and other information (where available; dependent on data from broadcaster).

*Built-in models only.

Progressive scan explained
DynaFlat HD sets and monitors automatically upconvert all analog, interlaced signals to a clearer, sharper progressive scan image. The result is smooth, flicker-free motion and still images with clearly defined edges and legible text.

Samsung progressive scan vs. interlaced scan

Samsung progressive scan

Sharpens edges
Progressive scanning helps to prevent color bleed and blending by creating sharp, clearly defined edges. Ordinary interlaced images often have jagged lines where colors meet.

Without progressive scan

Samsung progressive scan

Eliminates color shift
Interlaced scanning can make movie credits hard to read. Progressive scanning eliminates the green and red outlines around light text on a dark background. DynaFlat TVs make text easy to read and easier on your eyes.

Without progressive scan

Specifications

DynaFlat Wiselink HDTV

DynaFlat built-in HDTV models

DynaFlat HD Monitors

Model Number		TXN3076WH	TXP3075WH	TXP3275H	TXP2775H	TXP2675WH	TXP3071WH	TXP3271H	TXP2771H	TXP2670WH	TXP3064WH	TXP3264H	TXP2764H	TXP2664WH
Series		**Wiselink built-in HD**	**Neo Side-Sound built-in HD**	**Neo Side-Sound built-in HD**	**Neo Side-Sound built-in HD**	**Neo Side-Sound built-in HD**	**Premiere built-in HD**	**Premiere built-in HD**	**Premiere built-in HD**	**Premiere built-in HD**	**Premiere HD**	**Premiere HD**	**Premiere HD**	**Premiere HD**
Size		30"	30"	32"	27"	26"	30"	32"	27"	26"	30"	32"	27"	26"
Aspect Ratio		16:9 Wide	16:9 Wide	4:3 Standard	4:3 Standard	16:9 Wide	16:9 Wide	4:3 Standard	4:3 Standard	16:9 Wide	16:9 Wide	4:3 Standard	4:3 Standard	16:9 Wide
Integrated HDTV Tuner (receiver/decoder)		Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	No	No	No	No
Display Device	DynaFlat HD Anti-Distortion Anti-Glare High Resolution Flat Picture Tube	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	New Finer Pixel Dot Pitch DynaFlat CRT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Dynamic Multiple Focus Electron Gun	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Picture	Display Format	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P	1080i/480P
	Dual HD (720P/1080i)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
	Digital Comb Filter	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	8-bit 20 MHz 3D Y/C	3-Line Digital	3-Line Digital	3-Line Digital	3-Line Digital
	Invar Shadow Mask	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Vertical Compression	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ProPicture (3-stage video correction)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	3:2 Pull Down	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Samsung's DNIe Video Enhancer	Yes	No	No	No	No	No	No	No	No	No	No	No	No
Sound	Output Power	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts	20 Watts
	MTS Stereo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	BBE Audio	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
Features	Light-Touch Control Keys	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No
Terminals	DVI with HDCP	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear	1 Rear
	HDTV Component Video Input (Y, Pb, Pr)	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 720P/1080i/480P/480i	2 1080i/480P/480i	2 1080i/480P/480i	2 1080i/480P/480i	2 1080i/480P/480i
	S-Video	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear	1 Side/1 Rear
	Composite	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear	1 Side/3 Rear
Dimensions	Size (W x H x D)	34.6" x 21.9" x 23.5"	35.4" x 23.1" x 22"	35.9" x 27.7" x 22.8"	30" x 23.6" x 20.4"	31.9" x 21.1" x 20.3"	34.6" x 21.9" x 23.6"	35.8" x 27.2" x 23"	30.2" x 22.9" x 22.1"	31.5" x 19.9" x 21.8"	35.4" x 23.1" 22"	35.9" 27.7" x 22.8"	30" x 23.6" x 20.4"	31.9" x 21.1" x 20.3"
	Weight	122.4	123.5	147.7	104.7	88.6	123.5	149.9	100.3	89.1	123.5	147.7	104.7	88.6
UPC		036725 2 2681 4	036725 2 3070 5	036725 2 2685 2	036725 2 2677 7	036725 2 2640 1	036725 2 2679 1	036725 2 2683 8	036725 2 2676 0	036725 2 2673 9	036725 2 3071 2	036725 2 3230 3	036725 2 2711 8	036725 2 2641 8